

## CLAIMS

1                    1. An optical waveguide, comprising a core, said core being  
2                    doped with laser-active ions, said core being additionally doped with Cer.

1                    2. An optical waveguide as defined in claim 1, wherein said  
2                    doping with Cer constitutes 5-200% of a concentration of the laser-active  
3                    ions in mol %.

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1                    3. An optical waveguide as defined in claim 1, wherein the  
2                    waveguide is formed as a silicate fiber, said core being codoped also for  
3                    adjusting a refraction index profile.

1                    4. An optical amplifier, comprising a component which is an  
2                    optical waveguide, said optical waveguide including a core, said core being  
3                    doped with laser-active ions, said core being additionally doped with Cer.

1                            5. An optical power amplifier, comprising a component which  
2                            is an optical waveguide, including a core, said core being doped with laser-  
3                            active ions, said core being additionally doped with Cer.

1                            6. A laser, comprising an optical waveguide including a core,  
2                            said core being doped with laser-active ions, said core being additionally  
3                            doped with Cer.

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1                            7. An optical device which is used under radiation loading,  
2                            comprising an optical waveguide including a core, said core being doped with  
3                            laser-active ions, said core being additionally doped with Cer.